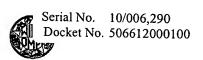
WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

C12Q 1/68 A1 (43) International Publication Date: 1 April 1999 (01.04.99) (21) International Application Number: PCT/US98/19549 (22) International Filing Date: 22 September 1998 (22.09.98) (30) Priority Data: 08/937,063 24 September 1997 (24.09.97) US (71) Applicants: BETH ISRAEL DEACONESS MEDICAL CENTER [US/US]; 330 Brookline Avenue, Boston, MA 02215 (US). CORNELL RESEARCH FOUNDATION, INC. [US/US]; Suite 105, 20 Thornwood Drive, Ithaca, NY 14850 (US). (72) Inventors: STROM, Terry, B.; 22 Kennard Road, Brookline, MA 02146 (US). SUTHANTHIRAN, Manikkam; Apartment 12N, 1161 York Avenue, New York, NY 10021 (US). (74) Agents: HOGLE, Doreen, M. et al.; Hamilton, Brook, Smith & Reynolds, P.C., Two Militia Drive, Lexington, MA 02421 (US).	(51) International Patent Classification ⁶ :		(11) International Publication Number: WO 99/15700
(22) International Filing Date: 22 September 1998 (22.09.98) (30) Priority Data: 08/937,063 24 September 1997 (24.09.97) (71) Applicants: BETH ISRAEL DEACONESS MEDICAL CENTER [US/US]; 330 Brookline Avenue, Boston, MA 02215 (US). CORNELL RESEARCH FOUNDATION, INC. [US/US]; Suite 105, 20 Thornwood Drive, Ithaca, NY 14850 (US). (72) Inventors: STROM, Terry, B.; 22 Kennard Road, Brookline, MA 02146 (US). VASCONCELLOS, Lauro; 185 Freeman Street, Brookline, MA 02146 (US). SUTHANTHIRAN, Manikkam; Apartment 12N, 1161 York Avenue, New York, NY 10021 (US). (74) Agents: HOGLE, Doreen, M. et al.; Hamilton, Brook, Smith & Reynolds, P.C., Two Militia Drive, Lexington, MA 02421	C12Q 1/68	A1	(43) International Publication Date: 1 April 1999 (01.04.99)
08/937,063 24 September 1997 (24.09.97) With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments. (71) Applicants: BETH ISRAEL DEACONESS MEDICAL CENTER [US/US]; 330 Brookline Avenue, Boston, MA 02215 (US). CORNELL RESEARCH FOUNDATION, INC. [US/US]; Suite 105, 20 Thornwood Drive, Ithaca, NY 14850 (US). (72) Inventors: STROM, Terry, B.; 22 Kennard Road, Brookline, MA 02146 (US). VASCONCELLOS, Lauro; 185 Freeman Street, Brookline, MA 02146 (US). SUTHANTHIRAN, Manikkam; Apartment 12N, 1161 York Avenue, New York, NY 10021 (US). (74) Agents: HOGLE, Doreen, M. et al.; Hamilton, Brook, Smith & Reynolds, P.C., Two Militia Drive, Lexington, MA 02421	•		CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,
	08/937,063 24 September 1997 (24.09.97) US (71) Applicants: BETH ISRAEL DEACONESS MEDICAL CENTER [US/US]; 330 Brookline Avenue, Boston, MA 02215 (US). CORNELL RESEARCH FOUNDATION, INC. [US/US]; Suite 105, 20 Thornwood Drive, Ithaca, NY 14850 (US). (72) Inventors: STROM, Terry, B.; 22 Kennard Road, Brookline, MA 02146 (US). VASCONCELLOS, Lauro; 185 Freeman Street, Brookline, MA 02146 (US). SUTHANTHIRAN, Manikkam; Apartment 12N, 1161 York Avenue, New York, NY 10021 (US). (74) Agents: HOGLE, Doreen, M. et al.; Hamilton, Brook, Smith & Reynolds, P.C., Two Militia Drive, Lexington, MA 02421		With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments. A li, y

(57) Abstract

The invention relates to methods of evaluating transplant rejection in a host comprising determining a heightened magnitude of gene expression of two out of three immune activation marker genes perforin, granzyme B and Fas ligand, in a tissue biopsy or peripheral blood mononuclear cell sample, particularly using reverse transcription polymerase chain reaction; methods of assessing antirejection therapy; and kits for use in evaluating transplant rejection. The remaining pages of this document are provided in electronic format on the attached compact disc.

Full paper copies will be provided upon request by the Examiner.